

90700 to 90799

SERVICE ENGINE



SALES MANUAL

**MODEL 90700 SERIES ENGINES REPLACED WITH
 STANDARD SERVICE ENGINES**

In most cases, the Original Type numbers shown may be replaced by a Service Type Number without making any changes. Necessary changes of engine parts such as crankshafts, reduction parts, blower housings, etc., are noted. Other differences, such as mufflers, elbows, deflectors, etc., are not listed but are very important for safety and engine performance. Be sure the exhaust system on the replacement engine duplicates the system originally selected by the equipment manufacturer. Parts that are suitable for additional use should be transferred. Before making any conversion, check the data shown in the column labeled "REMOVE, ADD and NOTE." See if the changes, which are shown, are actually necessary on the application in question. Often a standard service engine will be a WORKABLE replacement without converting to such things as a special fuel tank or starter position.

If the crankshaft number does not appear in the "Original Engine" column, consult the Illustrated Parts List for the correct service replacement crankshaft number.

Engine Replacement Notes:

NOTE 25: If the replacement engine supersedes to or is a Model 120000 series engine, refer to the illustrations located after the conversion data for this model series. The overall dimensions that differ, are shown in the illustrations. If after making a visual inspection and it is determined the Model 120000 series engine cannot be used because of equipment interference, the original engine should be repaired with individual parts.

Short Block Notes:

The SHORT BLOCK part number shown, is the assembly which can be used to rebuild the Original Type Number. If a letter appears after the short block number, it indicates the short block must be modified. The change denoted by each letter is as follows:

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Original Engine			Make From		Remove		Add		Note	Change to Type	Trim	RPM	Short Block	
Type	Model	Crank	Model	Type #	Qty	Part #	Qty	Part #					Part #	Notes
0015	90702	493016	122K02	0515	1	690319	1	691851	25		All	3500		
0025	90702	492748	122K02	0515					25		All	3100		
0026	90702	492086	122K02	0516					25		All	3100		
0030	90702	492748	122K02	0515					25		All	3100		
0050	90782	492748	No Replacement Repair With Individual Parts.								All	3100		
0051	90782	492748	No Replacement Repair With Individual Parts.								All	3100		
0052	90782	492086	No Replacement Repair With Individual Parts.								All	3100		
0053	90782	492086	No Replacement Repair With Individual Parts.								All	3100		
0065	90788	492748	No Replacement Repair With Individual Parts.								All	3100		
0067	90788	492086	No Replacement Repair With Individual Parts.								All	3100		
0071	90708	492748	122K02	0515					25		All	3100		
0072	90708	492086	122K02	0516					25		All	3100		
0100	90702	493016	122K02	0515	1	690319	1	691851	25		All	3500		
0101	90707	493016	No Replacement Repair With Individual Parts.											
0102	90708	493016	122K02	0515	1	690319	1	691851	25		All	3500		
0111	90782	492086	No Replacement Repair With Individual Parts.								All	3100		
0112	90782	492086	No Replacement Repair With Individual Parts.								All	3100		
0113	90702	492086	122K02	0516	1	91084	1	93418	25		All	3100		
0114	90702	493016	122K02	0515	1	690319	1	691851	25		All	3500		
0115	90702	493016	122K02	0515	1	690319	1	691681	25		All	3500		
0116	90708	492086	122K02	0516					25		All	3100		
0117	90708	493016	122K02	0515					25		All	3100		
0118	90782	493016	No Replacement Repair With Individual Parts.								All	3200		
0119	90787	493016	No Replacement Repair With Individual Parts.								All	3200		
0120	90708	493016	122K02	0515	1	690319	1	691851	25		All	3300		
0121	90707	493016	No Replacement Repair With Individual Parts.								All	3300		
0122	90782	494034	No Replacement Repair With Individual Parts.								All	3100		
0123	90708	493016	No Replacement Repair With Individual Parts.								All	3200		
0124	90788	493016	No Replacement Repair With Individual Parts.								All	3100		

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Original Engine			Make From		Remove		Add		Note	Change to Type	Trim	RPM	Short Block			
Type	Model	Crank	Model	Type #	Qty	Part #	Qty	Part #					Part #	Notes		
0125	90707	492086	No Replacement Repair With Individual Parts.									All	3100			
0126	90702	483618	No Replacement Repair With Individual Parts.									All	3500			
0127	90708	492086	122K02	0516	1	690319	1	691851	25		All	3500				
0128	90708	493618	No Replacement Repair With Individual Parts.									All	3500			
0129	90708	494034	122K02	0518	1	91084	1	691851	25		All	3500				
0130	90702	493016	122K02	0515					25		All	3100				
0131	90702	492086	122K02	0516					25		All	3200				
0132	90702	493016	122K02	0515	1	690319	1	691851	25		All	3500				
0133	90708	493016	122K02	0515	1	690319	1	691851	25		All	3500				
0134	90702	492086	122K02	0516	1	690319	1	691851	25		All	3500				
0135	90702	493016	122K02	0515	1	690319	1	691851	25		All	3500				
0136	90702	493016	122K02	0515					25		All	3200				
0137	90702	492086	122K02	0516	1	690319	1	691851	25		All	3500				
0138	90707	493016	No Replacement Repair With Individual Parts.									All	3500			
0139	90787	493016	No Replacement Repair With Individual Parts.									All	3100			
0140	90782	493016	No Replacement Repair With Individual Parts.									25	All	3000		
0141	90787	493016	No Replacement Repair With Individual Parts.									All	3000			
0142	90702	262339	No Replacement Repair With Individual Parts.									All	3100			
0143	90702	493016	122K02	0515	1	690319	1	691851	25		All	3500				
0144	90782	493016	122K82	0550	1	690522	1	691778	25		All	3000				
0145	90702	493016	122K02	0515					25		All	3000				
0146	90708	492086	122K02	0516					25		All	3200				
0147	90702	492086	122K02	0516					25		All	3100				
0148	90702	493016	122K02	0515					25		All	3100				
0149	90707	493016	No Replacement Repair With Individual Parts.									All	3500			
0150	90708	493016	No Replacement Repair With Individual Parts.									All	3200			
0151	90702	492086	122K02	0516					25		All	3200				
0152	90702	492086	122K02	0516					25		All	3000				
0153	90702	493618	No Replacement Repair With Individual Parts.									All	3100			
0154	90702	494034	122K02	0518	1	690319	1	691851	25		All	3500				
0155	90702	492086	122K02	0516					25		All	3100				
0156	90702	492086	122K02	0516					25		All	3000				
0157	90702	492086	122K02	0516	1	492177	1	492893	25		All	3200				
0158	90787	494034	No Replacement Repair With Individual Parts.									All	3100			
0159	90702	493016	122K02	0515					25		All	3100				
0160	90702	492086	122K02	0516					25		All	3000				
0161	90702	492086	122K02	0516					25		All	3300				
0162	90708	492086	122K02	0516					25		All	3300				
0163	90708	493618	No Replacement Repair With Individual Parts.									All	3300			
0164	90702	492086	122K02	0516					25		All	3100				
0165	90702	492086	No Replacement Repair With Individual Parts.									All	2900			
0166	90702	493618	122K02	0518	1	492177	1	262654	25		All	4000				
						1	690319	1	691851							
0167	90707	493016	No Replacement Repair With Individual Parts.									All	3500			
0168	90702	492086	122K02	0516	1	492177	1	492893	25		All	3500				
						1	690319	1	691851							
0169	90707	493016	No Replacement Repair With Individual Parts.									All	3000			
0170	90702	492086	122K02	0516					25		All	3200				
0171	90707	494034	No Replacement Repair With Individual Parts.									All	3500			
0172	90702	262339	No Replacement Repair With Individual Parts.									All	3100			
0173	90702	493016	122K02	0515					25		All	3200				
0174	90702	492086	122K02	0516	1	690319	1	691851	25		All	3500				
0175	90702	494034	122K02	0518	1	492177	1	492893	25		All	3700				
						1	690319	1	691851							

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Original Engine			Make From		Remove		Add		Note	Change to Type	Trim	RPM	Short Block	
Type	Model	Crank	Model	Type #	Qty	Part #	Qty	Part #					Part #	Notes
0176	90702	492086	122K02	0516	1	690319	1	691851	25		All	3500		
0177	90707	493016	No Replacement Repair With Individual Parts.											
0178	90702	262339	No Replacement Repair With Individual Parts.											
0179	90702	493618	No Replacement Repair With Individual Parts.											
0180	90702	493016	122K02	0515					25		All	3100		
0181	90702	492086	122K02	0516					25		All	3100		
0182	90702	493618	No Replacement Repair With Individual Parts.											
0183	90707	492086	No Replacement Repair With Individual Parts.											
0184	90788	493016	No Replacement Repair With Individual Parts.											
0185	90702	493016	122K02	0515					25		All	3000		
0186	90782	493016	No Replacement Repair With Individual Parts.											
0187	90787	493016	No Replacement Repair With Individual Parts.											
0188	90702	493086	122K02	0516					25		All	3200		
0189	90702	262339	No Replacement Repair With Individual Parts.											
0190	90702	494034	122K02	0518					25		All	3100		
0191	90702	494034	122K02	0518	1	690319	1	691851	25		All	3500		
0192	90702	492086	122K02	0516					25		All	3100		
0193	90707	492086	No Replacement Repair With Individual Parts.											
0194	90706	494034	No Replacement Repair With Individual Parts.											
0195	90707	494034	No Replacement Repair With Individual Parts.											
0196	90706	494034	No Replacement Repair With Individual Parts.											
0197	90702	493016	122K02	0515	1	690319	1	691851	25		All	3500		
0198	90708	492086	122K02	0516					25		All	3100		
0199	90702	494034	122K02	0518	1	492177	1	492893	25		All	3500		
						1	690319	1	691851					
0200	90702	494034	122K02	0518	1	392177	1	492893	25		All	3300		
0201	90782	493016	No Replacement Repair With Individual Parts.											
0202	90708	493016	122K02	0515					25		All	3100		
0203	90788	492086	No Replacement Repair With Individual Parts.											
0204	90782	493016	No Replacement Repair With Individual Parts.											
0205	90702	493016	122K02	0515					25		All	3100		
0206	90708	492086	122K02	0516					25		All	3100		
0207	90782	492086	No Replacement Repair With Individual Parts.											
0208	90706	494034	No Replacement Repair With Individual Parts.											
0211	90788	493016	No Replacement Repair With Individual Parts.											
0212	90707	492086	No Replacement Repair With Individual Parts.											
0237	90788	492086	No Replacement Repair With Individual Parts.											
0238	90708	492086	122K02	0516					25		All	3100		
0251	90782	493016	No Replacement Repair With Individual Parts.											
0261	90782	493016	No Replacement Repair With Individual Parts.											
0262	90702	493016	122K02	0515					25		All	3100		
3000	90702	493016	122K02	0515	1	690319	1	691851	25		All	3500		
3037	90702	493618	No Replacement Repair With Individual Parts.											
3038	90702	494034	122K02	0518					25		All	3000		
3039	90702	493016	122K02	0515					25		All	3000		
3040	90782	493016	No Replacement Repair With Individual Parts.											
3041	90707	492086	No Replacement Repair With Individual Parts.											
3042	90702	492086	122K02	0516					25		All	3100		
3043	90782	492086	No Replacement Repair With Individual Parts.											
3044	90702	492086	122K02	0516					25		All	3100		
3045	90782	493016	No Replacement Repair With Individual Parts.											
3046	90702	493016	122K02	0515					25		All	3000		
3047	90702	494034	122K02	0518					25		All	3000		
3048	90702	493016	122K02	0515					25		All	3000		
3049	90702	492086	122K02	0516					25		All	2900		

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Original Engine			Make From		Remove		Add		Note	Change to Type	Trim	RPM	Short Block		
Type	Model	Crank	Model	Type #	Qty	Part #	Qty	Part #					Part #	Notes	
3050	90702	493016	122K02	0515					25		All	2900			
3051	90782	492086	No Replacement Repair With Individual Parts.									All	3100		
3052	90702	493016	122K02	0515	1	690319	1	691851	25		All	3700			
3053	90702	492086	122K02	0516					25		All	3200			
3054	90702	493016	122K02	0515					25		All	3200			
3055	90782	492086	No Replacement Repair With Individual Parts.									All	3100		
3056	90702	493016	122K02	0515					25		All	3300			
3057	90782	493016	No Replacement Repair With Individual Parts.									All	3100		
3058	90702	493016	122K02	0515					25		All	3100			
3059	90782	492086	No Replacement Repair With Individual Parts.									All	3100		
3060	90702	493016	122K02	0515					25		All	3200			
3061	90782	493016	No Replacement Repair With Individual Parts.									All	3200		
3062	90782	492086	No Replacement Repair With Individual Parts.									All	3100		
3063	90782	493016	No Replacement Repair With Individual Parts.									All	3100		
3064	90702	492086	122K02	0516					25		All	3100			
3065	90702	492086	122K02	0516					25		All	3200			
3066	90702	492748	122K02	0515					25		All	3100			
3067	90782	493016	No Replacement Repair With Individual Parts.									All	3100		
3068	90782	494034	No Replacement Repair With Individual Parts.									All	3000		
3069	90702	493618	No Replacement Repair With Individual Parts.									All	3500		
3070	90782	493016	No Replacement Repair With Individual Parts.									All	3000		
3071	90702	492086	122K02	0516					25		All	2900			
3072	90702	493016	122K02	0515					25		All	2900			
3073	90702	493016	122K02	0515					25		All	3100			
3074	90702	493016	122K02	0515	1	690319	1	691851	25		All	3500			
3075	90708	493618	No Replacement Repair With Individual Parts.									All	3500		
3076	90702	492086	122K02	0516					25		All	2900			
3077	90702	493016	122K02	0515					25		All	3400			
3078	90702	493016	122K02	0515					25		All	3200			
3079	90702	492086	122K02	0516					25		All	3100			
3080	90702	493016	122K02	0515					25		All	3100			
3081	90702	493016	122K02	0515					25		All	2900			
3082	90702	262339	No Replacement Repair With Individual Parts.									All	3100		
3083	90702	492086	122K02	0516					25		All	3100			
3084	90782	492086	No Replacement Repair With Individual Parts.									All	3200		
3085	90702	492086	122K02	0516					25		All	3200			
3086	90782	492086	No Replacement Repair With Individual Parts.									All	3200		
3087	90782	492748	No Replacement Repair With Individual Parts.									All	3100		
3088	90782	492748	No Replacement Repair With Individual Parts.									All	3200		
3089	90702	492086	122K02	0516					25		All	2900			
3090	90702	492086	122K02	0516					25		All	2900			
3091	90782	493016	No Replacement Repair With Individual Parts.									All	2900		
3092	90702	493618	No Replacement Repair With Individual Parts.									All	3300		
3093	90702	494034	122K02	0518					25		All	3100			
3094	90782	493016	No Replacement Repair With Individual Parts.									All	3300		
3095	90782	493016	No Replacement Repair With Individual Parts.									All	3100		
3096	90702	492748	122K02	0515					25		All	3200			
3097	90702	262339	No Replacement Repair With Individual Parts.									All	3100		
3098	90782	492086	No Replacement Repair With Individual Parts.									All	3200		
3099	90702	492086	122K02	0516					25		All	3100			
3100	90702	493016	122K02	0515					25		All	2900			
3101	90782	492748	No Replacement Repair With Individual Parts.									All	3100		
3102	90782	493016	No Replacement Repair With Individual Parts.									All	2900		
3103	90702	492086	122K02	0516					25		All	2900			
3104	90782	492748	No Replacement Repair With Individual Parts.									All	3300		

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Original Engine			Make From		Remove		Add		Note	Change to Type	Trim	RPM	Short Block	
Type	Model	Crank	Model	Type #	Qty	Part #	Qty	Part #					Part #	Notes
3105	90702	493016	122K02	0515					25		All	3300		
3106	90702	262339	No Replacement Repair With Individual Parts.						25		All	3200		
3107	90702	494034	122K02	0518					25		All	3100		
3108	90702	492748	122K02	0515					25		All	3200		
3109	90782	492748	No Replacement Repair With Individual Parts.								All	3200		
3110	90702	492086	122K02	0516					25		All	3500		
3111	90702	492748	122K02	0515					25		All	3200		
3112	90782	492748	No Replacement Repair With Individual Parts.								All	3200		
3113	90702	492086	122K02	0516					25		All	3100		
3114	90782	493016	No Replacement Repair With Individual Parts.								All	3100		
3115	90702	493016	122K02	0515					25		All	3100		
3116	90702	494034	122K02	0518					25		All	3100		
3117	90787	492748	No Replacement Repair With Individual Parts.								All	3200		
3118	90787	492748	No Replacement Repair With Individual Parts.								All	3200		
3119	90782	492748	No Replacement Repair With Individual Parts.								All	3300		
3120	90702	493016	122K02	0515					25		All	3400		
3121	90702	492748	122K02	0515					25		All	3200		
3122	90702	492086	122K02	0516					25		All	3100		
3123	90702	492748	122K02	0515					25		All	3100		
3124	90702	492086	122K02	0516					25		All	3100		
3125	90782	492748	No Replacement Repair With Individual Parts.								All	3100		
3126	90702	492086	122K02	0516					25		All	3100		
3127	90702	262339	No Replacement Repair With Individual Parts.						25		All	3100		
3128	90782	492086	No Replacement Repair With Individual Parts.								All	3200		
3129	90782	492748	No Replacement Repair With Individual Parts.								All	3200		
3130	90702	493016	122K02	0515					25		All	3200		
3131	90702	492086	122K02	0516	1	690319	1	691851	25		All	3400		
3132	90702	493846	122K02	0518					25		All	3000		
3133	90782	492748	No Replacement Repair With Individual Parts.								All	3000		
3134	90787	492748	No Replacement Repair With Individual Parts.								All	3200		
3135	90702	493618	No Replacement Repair With Individual Parts.								All	3500		
3136	90708	493618	No Replacement Repair With Individual Parts.								All	3500		
3137	90702	493016	122K02	0515					25		All	3100		
3138	90782	493016	No Replacement Repair With Individual Parts.								All	3100		
3139	90702	492086	122K02	0516					25		All	3100		
3140	90702	492748	122K02	0515					25		All	3100		
3141	90702	493618	No Replacement Repair With Individual Parts.								All	3100		
3715	90702	492748	122K02	0515					25		All	3100		
3716	90702	492086	122K02	0516					25		All	3100		
3718	90702	493618	No Replacement Repair With Individual Parts.								All	3100		
3750	90782	492748	No Replacement Repair With Individual Parts.								All	3100		
3751	90782	492748	No Replacement Repair With Individual Parts.								All	3100		
3752	90782	492086	No Replacement Repair With Individual Parts.								All	3100		
3761	90707	492086	No Replacement Repair With Individual Parts.								All	3100		